

03050109-090
(Broad Mouth Creek)

General Description

Watershed 03050109-090 is located in Anderson and Abbeville Counties and consists primarily of **Broad Mouth Creek** and its tributaries. The watershed occupies 21,744 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Cecil-Madison series. The erodibility of the soil (K) averages 0.26; the slope of the terrain averages 15%, with a range of 2-40%. Land use/land cover in the watershed includes: 7.89% urban land, 24.15% agricultural land, 6.34% scrub/shrub land, 2.32% barren land, 59.08% forested land, and 0.22% water.

Broad Mouth Creek flows past the City of Belton and accepts the drainage of Chinquola Mill Creek (Still Branch) near the Town of Honea Path before draining into the Saluda River. This watershed contains a total of 46.5 stream miles, all classified FW. There are several ponds in the watershed (10-15 acres) used for flood control and recreation.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
S-289	S	FW	BROAD MOUTH CK AT S-04-267, BELOW BELTON MARSHALL PLT
S-776	BIO	FW	TRIBUTARY TO BROAD MOUTH CREEK AT S-04-205
S-010	S	FW	BROAD MOUTH CREEK AT US 76
S-775	BIO	FW	BROAD MOUTH CREEK AT S-04-81
S-304	W	FW	BROAD MOUTH CREEK AT S-01-111

Broad Mouth Creek - There are four SCDHEC monitoring sites along Broad Mouth Creek, which was Class B until April, 1992. At the furthest upstream site (S-289), aquatic life uses are fully supported, and significant decreasing trends in five-day biochemical oxygen demand and total phosphorus concentrations suggest improving conditions for these parameters. Aquatic life uses are also fully supported further downstream (S-010), but there is a significant increasing trend in turbidity. Significant decreasing trends in five-day biochemical oxygen demand and total phosphorus concentrations suggest improving conditions for these parameters. Recreational uses are not supported at either upstream site due to fecal coliform bacteria excursions. In addition, there were significant increasing trends in fecal coliform bacteria. At the next site downstream (S-775), aquatic life uses are fully supported based on macroinvertebrate community data, and aquatic life uses are again fully supported at the furthest downstream site (S-304). Recreational uses are not supported at this site due to fecal coliform bacteria excursions.

Unnamed tributary to Broad Mouth Creek (S-776) - This stream was Class B until April, 1992. Aquatic life uses are partially supported based on macroinvertebrate community data.

Permitted Activities

Point Source Contributions

RECEIVING STREAM
FACILITY NAME
PERMITTED FLOW @ PIPE (MGD)
COMMENT

NPDES#
TYPE
LIMITATION

BROAD MOUTH CREEK
AMERADA HESS CORP./BELTON
PIPE #: 001 FLOW: 0.032
WQL FOR TOXICS

SC0002887
MINOR INDUSTRIAL
WATER QUALITY

BROAD MOUTH CREEK
SOUTHEAST TERMINAL/BELTON
PIPE #: 001 FLOW: M/R

SC0025364
MINOR INDUSTRIAL
EFFLUENT

BROAD MOUTH CREEK
MARATHON OIL CO./BELTON
PIPE #: 001 FLOW: M/R-

SC0037567
MINOR INDUSTRIAL
EFFLUENT

BROAD MOUTH CREEK
COLONIAL PIPELINE/BELTON
PIPE #: 001 FLOW: M/R

SC0041459
MINOR INDUSTRIAL
EFFLUENT

BROAD MOUTH CREEK
TORRINGTON CO./HONEA PATH
PIPE #: 001 FLOW: 0.123

SC0047520
MINOR INDUSTRIAL
EFFLUENT

BROAD MOUTH CREEK
BELTON INDUSTRIES
PIPE #: 002 FLOW: 0.172
PIPE #: 001 FLOW: 0.017
WQL FOR NH3-N, DO, TRC

SC0000698
MINOR INDUSTRIAL
EFFLUENT
WATER QUALITY

BROAD MOUTH CREEK TRIBUTARY
SOUTHEASTERN BULK FUEL/BELTON
PIPE #: 001 FLOW: ---
WQL FOR BOD5, TOXICS

SC0043010
MINOR INDUSTRIAL
WATER QUALITY

Growth Potential

There is a low to moderate potential for growth in this watershed. The corridor that runs along US 76 from the Town of Honea Path to the City of Belton, and on to the Town of Williamston will continue to be a growth area.